ABBREVIATIONS

A	compressed air
ABV	above
AFF	above finished floor
AD	area drain
AP	access panel
ATMOS. V.	atmospheric vent
AV	acid resistant vent
AW	acid resistant waste
BFP	back flow preventer
BSMT	basement
BT	bathtub
BWV	backwater valve
CB	catch basin
CFS	cubic feet per second
CI	cast iron
CLW	clothes washer
CLG	ceiling
CO	cleanout
CONC.	concrete
CONN.	connection
CONT.	continuation
CP	concrete pipe
CS	cup sink
CTL	countertop lavatory
CTS	countertop sink
CW	domestic cold water
DF	drinking fountain
DN	down
DOM.	domestic
DP	deep
DR.	drain
DS	downspout
DSP	dry standpipe
DV	drain valve
DWG	drawing
DWP	domestic water pump
(E)	existing to remain
EL	elevation
EM. SHR.	emergency shower
E.S.	electrical section
EW	eye wash
EWC	electric water cooler
EXP. COMP.	expansion compensator
FAI	fresh air inlet
FC	flow control
FD	floor drain
FDC	fire department cabinet
FDV	fire department valve
FDVC	fire department valve cabinet
FEC	fire extinguisher cabinet
FH	fire hydrant
FHC	fire hose cabinet
FHR	fire hose rack
FIN. FL.	finished floor
FL	floor
FP	fire pump
FS	flow swich
FU	fixture unit(s)
FV	flush valve
G	gas-natural
G.I.	grease interceptor
GPM	gallon per minute
G.S.	general section
HB	hose bibb
HD	hub drain
HDR.	header
HP	horsepower
HVAC	heating ventilating & air conditioning section
HW	domestic hot water
HWG	hot water generator
HWR	hot water return
HWH	hot water heater
HWRP	hot water recirc. pump
ID	inside diameter
IE	invert elevation
INV	invert
IW	indirect waste
JP	jockey pump
KS	kitchen sink
LAV	lavatory
LS	laboratory sink
LT	lint trap
MH	manhole
MR	mop receptor
MS	mop sink
(N)	new
NC	normally closed
NIC	not in contract
NO	normally open
N.T.S.	not to scale
O2	oxygen
OWH	outside wall hydrant
PH	penthouse
PIV	post indicator valve
PRV	pressure reducing valve
P.S.	plumbing section
P.S.I.	pounds per square inch
(R)	remove
RCP	reinforced concrete pipe
RD	roof drain
RWC	rain water conductor
S	soil
SAN	sanitary
SC. DR.	scupper drain
SD	sight drain
SHR	shower
SIAM.	siamese
SK	sink
SP	standpipe
SPR	sprinkler
SS	service sink
S.W.DR.	safe waste drain
T.B.	thrust block
T.E.	top elevation
TS	tamper switch
TW	tempered water
UR	urinal
V	vent
VAC	vacuum
VB	vacuum breaker
VI	vibration isolator
VTR	vent through roof
W	waste
WC	water closet
WCO	wall cleanout
WF	wash fountain
WH	wall hydrant
WHA	water hammer arrestor
WSP	wet standpipe
WW	well water
ZCV	zone control valve

SYMBOLS

- sanitary drain
- (sanitary) vent pipe
- storm drain
- domestic cold water
- domestic hot water (120°)
- domestic hot water return (120°)
- domestic hot water (temperature as indicated)
- domestic hot water return (temperature as indicated)
- A (50) — compressed air (p.s.i.)
- DSP — dry standpipe
- DW — distilled water
- F — fire line
- G — gas
- IW — indirect waste
- T — tempered hot water
- V — vacuum
- W — domestic water (outside)

- hwr balancing system
- balancing valve
- check valve
- fire department valve
- shut-off valve
- monitored fire valve
- throttling valve
- valve in drop
- pipe guide
- monitored sprinkler sectional valve w/flow switch & test valve
- outside wall hydrant
- post indicator valve
- pressure regulating valve
- pressure gauge & valve
- gas cock
- direction of flow
- E.J. — expansion joint
- fire department connection (siamese)
- pipe anchor
- pitch of pipe down
- service riser-down
- service riser-up
- strainer w/gate valve w/nipple & cap
- strainer
- union or flanged connection
- point of connection new to existing
- termination of demolition, removal
- hot water recirc. pump
- cleanout

PLUMBING GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL EQUIPMENT, ROOF DRAINS AND FIXTURES

2. PROVIDE ACCESSIBLE CLEANOUTS AT THE BASE OF ALL SANITARY STACKS AND AT THE BASE OF ALL VERTICAL RAINWATER CONDUCTORS.

3. DRAINAGE PIPING CLEANOUTS SHALL BE LOCATED IN UNFINISHED ROOMS, STORAGE ROOMS, CLOSETS, AND JANITORS CLOSETS WHERE POSSIBLE. EXTEND FLOOR CLEANOUTS FROM MAIN DRAIN TO THESE ROOMS. CLEANOUT LOCATIONS IN FINISHED ROOMS ARE TO BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.

4. LOCATIONS OF UNDERGROUND UTILITIES MUST BE VERIFIED BEFORE START OF CONSTRUCTION. CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING EXCAVATION TO AVOID DISTURBING OR DAMAGING EXISTING UNDERGROUND UTILITY LINES. ALL DAMAGED UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

5. ALL EXCAVATION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REGULATIONS OF [OSHA] THE OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION.

6. PLUMBING PIPING SHALL NOT BE RUN THROUGH ELECTRICAL ROOMS, TELECOMMUNICATIONS ROOMS, OR ELEVATOR MACHINE ROOMS. EXCEPT FOR BRANCH PIPING SERVING EQUIPMENT IN THESE ROOMS.

7. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED IN ACCORDANCE WITH SPECIFICATION SECTION 07 84 00.

8. UNLESS NOTED OTHERWISE ALL DRAINAGE PIPING SHALL HAVE A MINIMUM 0.01 SLOPE EXCEPT PIPING 3" AND SMALLER WHICH SHALL HAVE A 0.02 SLOPE.

9. ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION. PROVIDE A 1/2" COPPER LINE EXTENDED FROM TRAP PRIMER AS SPECIFIED TO THE PRIMER CONNECTION.

10. ALL EXPOSED STORM TO BE INSULATED SHALL HAVE A WHITE FINISH.

11. MODIFICATIONS OR ALTERATIONS TO EXISTING SYSTEMS SHALL BE ACCOMPLISHED SO AS TO NOT DISTURB ADJACENT AREAS. COORDINATE WITH OWNER FOR ACCESS TO AREA WHICH ARE OCCUPIED AND SHUTDOWNS WHICH WILL INTERFERE WITH THE NORMAL OPERATION OF THE BUILDING.

12. ALL DOMESTIC HOT WATER RETURN BRANCH CONNECTIONS SHALL BE EQUIPPED WITH A BALL VALVE, CHECK VALVE, AND BALANCING VALVE.

13. PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS PRIOR TO START OF PLUMBING SYSTEM INSTALLATION.

14. ALL DRAIN GRATES, CLEANOUT COVERS, AND OTHER FINISH-EXPOSED COMPONENTS SHALL BE PROTECTED FROM DAMAGE. DAMAGED COMPONENTS SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO CONTRACT.

15. SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE OWNER.

16. DISPOSE OF ALL REMOVED MATERIAL IN AN APPROVED MANNER.

17. ISOLATE, DRAIN, AND REFILL EXISTING SYSTEMS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW SYSTEMS.

18. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.

19. EQUIPMENT AND MATERIALS DESIRED BY THE OWNER SHALL BE STORED AT THE SITE BY THE CONTRACTOR AT A LOCATION DIRECTED BY THE OWNER. EQUIPMENT AND MATERIALS NOT DESIRED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR IMMEDIATELY.

20. REMOVE AND/OR RELOCATE EXISTING EQUIPMENT AS SPECIFIED OR SHOWN ON THE DRAWINGS IN A NEAT AND WORKMANLIKE MANNER. HANGERS, FOUNDATIONS AND/OR STRUCTURAL SUPPORTS FOR SAID EQUIPMENT AND MATERIALS SHALL BE REMOVED.

21. NO EXISTING EQUIPMENT OR MATERIAL SHALL BE REUSED WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE.

22. ALL EQUIPMENT AND MATERIAL TO REMOVED THAT IS DESIRED BY THE OWNER SHALL BE RIGGED TO AN ONSITE STORAGE LOCATIONS AS DIRECTED BY THE OWNER.

23. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH ANY WORK.

24. PRIOR TO STARTING CONSTRUCTION, DETERMINE EXACT INVERT ELEVATION, SIZE, DEPTH, AND LOCATION OF EXISTING UTILITIES WHERE CONNECTIONS ARE TO BE MADE OR INTERSECTIONS OCCUR. NOTIFY ARCHITECT OR ENGINEER OF ANY DISCREPANCY BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS. WORK BACK TOWARD BUILDING FROM UTILITY CONNECTION FOR ALL PIPING SYSTEMS.

25. MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF FLOOR DRAINS IN MECHANICAL ROOMS WITH HVAC EQUIPMENT.

26. PIPING RISING WITHIN A STORY DESIGNATED AS "RISE". PIPING RISING TO ANOTHER STORY IS NOTED AS "UP". PIPING DROPPING WITHIN A STORY IS NOTED AS "DROP". PIPING DROPPING TO ANOTHER STORY IS NOTED AS "DOWN".

27. PRESSURE PIPING AND VENT PIPING SHOWN ON RESPECTIVE FLOOR PLANS OCCUR ABOVE THAT FLOOR OR @ THE CEILING UNLESS OTHERWISE NOTED.

28. WASTE PIPING SHOWN ON RESPECTIVE FLOOR PLANS OCCUR BELOW FLOOR OR ABOVE CEILING BELOW UNLESS OTHERWISE NOTED.

29. IF CONTRACTOR IS IN THE PROCESS OF INSTALLING NEW WORK AND CONFLICTS WITH EXISTING CONDITIONS OR OTHER TRADES ARISE, NOTIFY THE ENGINEER/ARCHITECT AND DETERMINE REVISED COURSE OF ACTION BEFORE CONTINUING WORK IN THAT AREA.

30. REMOVAL OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE SATISFACTORY PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON THE EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK.

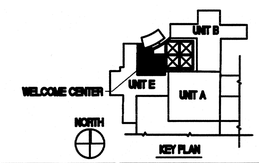
DRAWING INDEX

FIXTURE CONNECTION SCHEDULE

DESCRIPTION	SERVICE HW	SERVICE CW	WASTE	VENT	DRAINAGE F.U. VALUE PUBLIC	DRAINAGE F.U. VALUE PRIVATE	REMARKS
WATER CLOSET (P103)	---	1-1/4"	4"	2"	6		
LAVATORY (P420)	1/2"	1/2"	1-1/2"	1-1/2"	1		
SINK (P528)	1/2"	1/2"	1-1/2"	1-1/2"	3		
ELECTRIC WATER COOLER (P509)	1/2"	1/2"	1-1/2"	1-1/2"	1		
FLOOR DRAIN (FD-B)	---	---	4"	2"	2		

PLUMBING & DRAINAGE SPECIALTIES SCHEDULE

SYMBOL	DESCRIPTION	POINT OF USE	REMARKS
FD-B	FLOOR DRAIN	MECHANICAL ROOM	GALVANIZED C.I. BODY, MEDIUM NICKEL BRONZE GRATE, SECONDARY STRAINER, FLASHING COLLAR
FD-M	FUNNEL DRAIN	FOUNTAIN MECH SPACE	C.I. BODY, NICKEL BRONZE ADJUSTABLE STRAINER, AND FUNNEL, FLASHING COLLAR
RD	ROOF DRAIN	ROOFS	16" C.I. BODY W/ ALUMINUM DOME DECK CLAMP AND DRAIN RECEIVER
ORD	OVERFLOW ROOF DRAIN	ROOFS	16" C.I. BODY, W/ ALUMINUM DOME DECK CLAMP AND DRAIN RECEIVER, INTERNAL STANDPIPE



KEY PLAN

Revisions	Date
ISSUE 1 - ISSUE FOR CONSTRUCTION	04.30.2013
95 % SUBMISSION	02.17.2012
75 % SUBMISSION	03.16.2011
25 % SUBMISSION	10.29.2010

CONSULTANTS:

DISTRICT OF COLUMBIA ERIC O. JOESTEN NO. 901502 REGISTERED PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

EWING COLE
1025 Connecticut Avenue, NW
Suite 900
Washington, DC 20036-5405
Tel: 202-467-1500 Fax: 202-296-8950

Drawing Title: INDEX SHEET PLUMBING

Approved Project Director:

Project Title: OIF / OEF WELCOME CENTER DEPARTMENT OF VETERANS AFFAIRS VAMC

Location: Veterans Affairs Medical Center, 50 Irving Street NW Washington DC

Date: 4-30-2013 | Checked: BF | Drawn: LJM

Project Number: 688-334 OIF/OEF

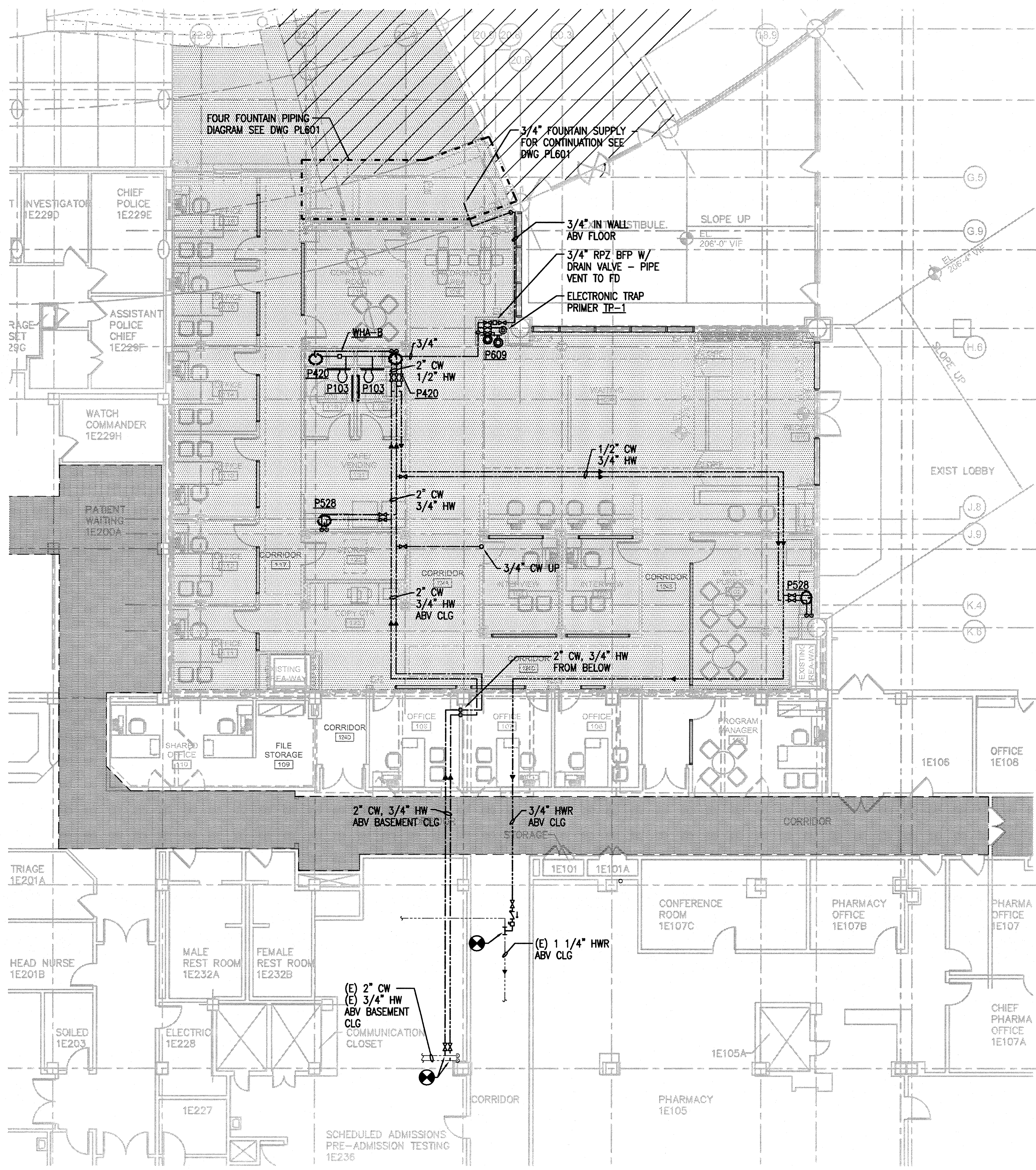
Building Number:

Drawing Number: PG001

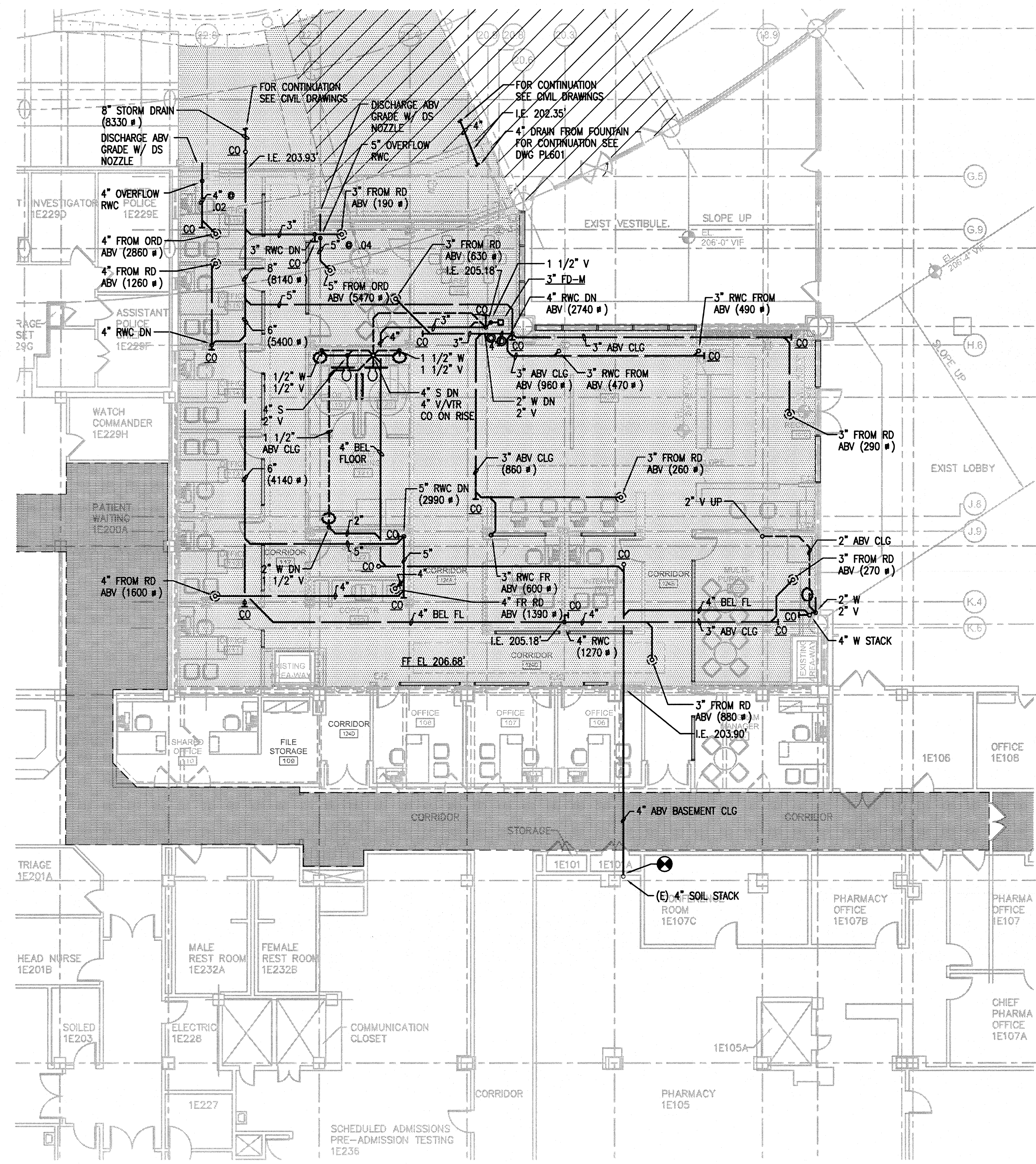
Office of Construction and Facilities Management

Department of Veterans Affairs

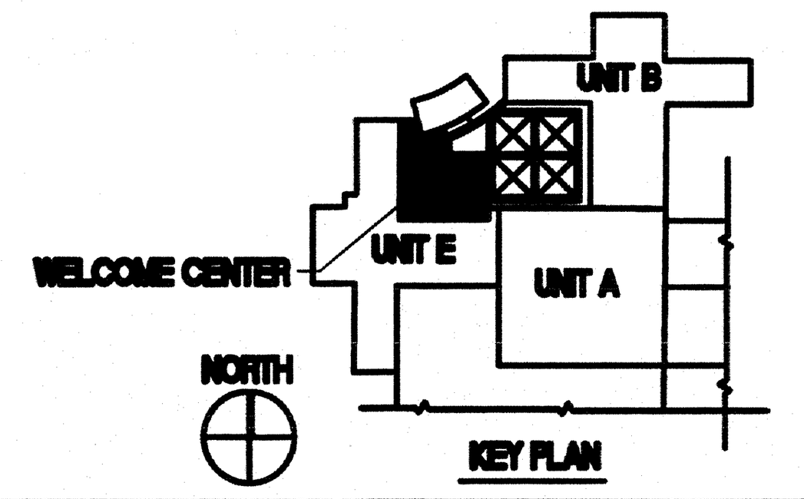
VA FORM 08-6231



1 PL21 FIRST FLOOR PLAN – SERVICE PIPING
1/8"=1'-0"



2 PL21 FIRST FLOOR PLAN – DRAINAGE
1/8"=1'-0"



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VA FORM 08-6231

CONSULTANTS:

DISTRICT OF COLUMBIA ERIC D. JOESTEN NO. 901502 REGISTERED PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

EWING COLE
1025 Connecticut Avenue, NW
Suite 900
Washington, DC 20036-5405
Tel: 202-467-1500 Fax: 202-296-8950

Drawing Title	FIRST FLOOR PLAN PLUMBING
Approved: Project Director	
Project Title	OIF / OEF WELCOME CENTER DEPARTMENT OF VETERANS AFFAIRS VAMC
Location	Veterans Affairs Medical Center, 50 Irving Street NW Washington DC
Date	4-30-2013
Checked	BF
Drawn	LJM
Project Number	688-334 OIF/OEF
Building Number	
Drawing Number	PL21

Office of Construction and Facilities Management

Department of Veterans Affairs

three inches = one foot

one and one half inches = one foot

one inch = one foot

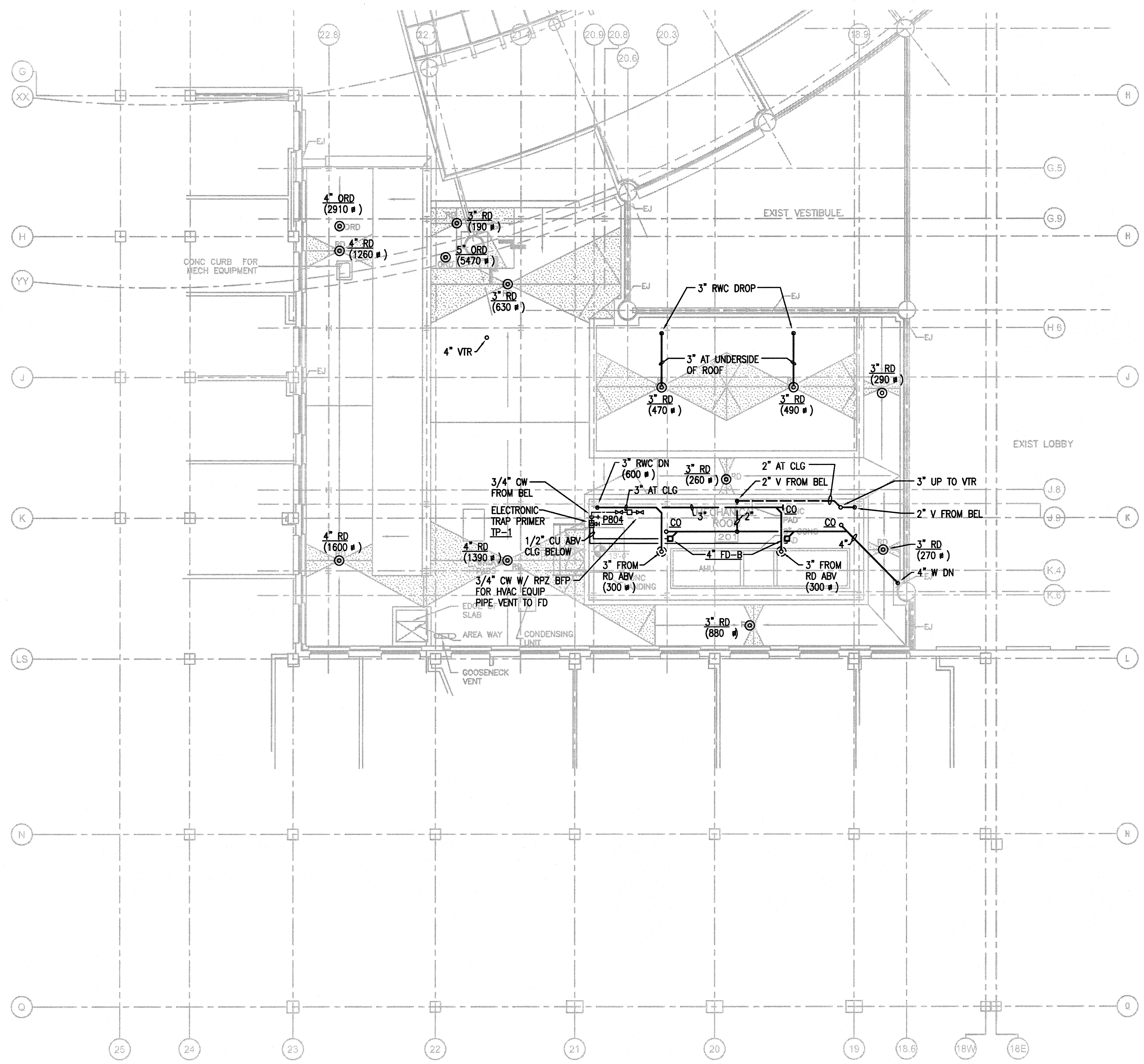
three quarters inch = one foot

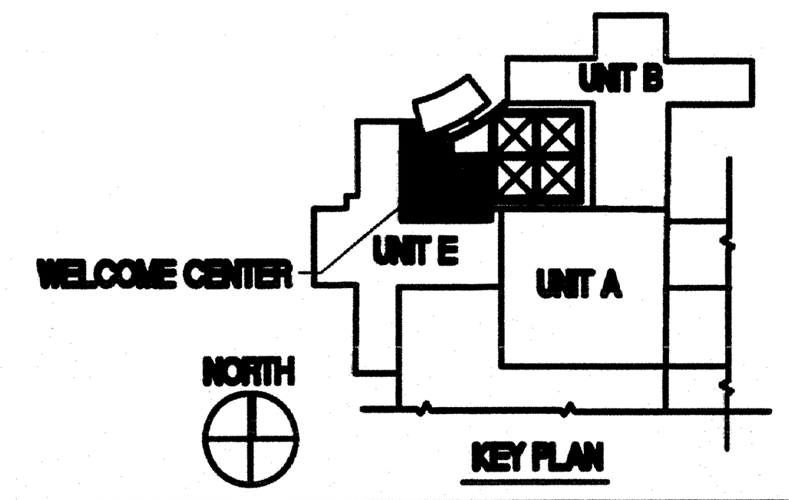
one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot





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CONSULTANTS:

DISTRICT OF COLUMBIA ERIC D. JOESTEN NO. 901502 REGISTERED PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

EWING COLE

1025 Connecticut Avenue, NW
Suite 900
Washington, DC 20036-5405
Tel: 202-467-1500 Fax: 202-296-8950

Drawing Title
PENTHOUSE AND ROOF PLANS PLUMBING

Approved: Project Director

Project Title
OIF / OEF WELCOME CENTER
DEPARTMENT OF VETERANS AFFAIRS
VAMC

Location: Veterans Affairs Medical Center
50 Irving Street NW Washington DC

Date: 4-30-2013 | Checked: BF | Drawn: LJM

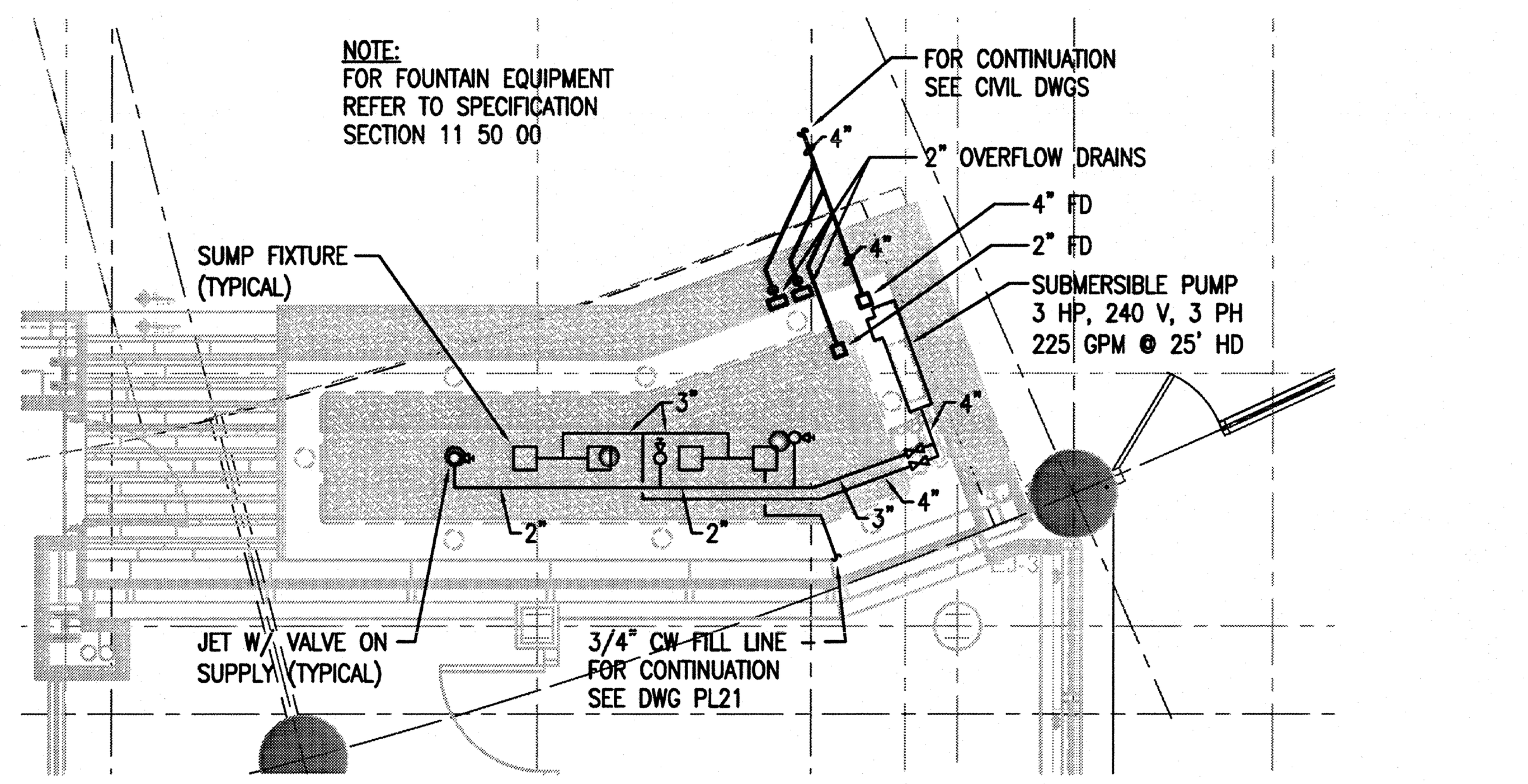
Project Number: 688-334 OIF/OEF

Building Number

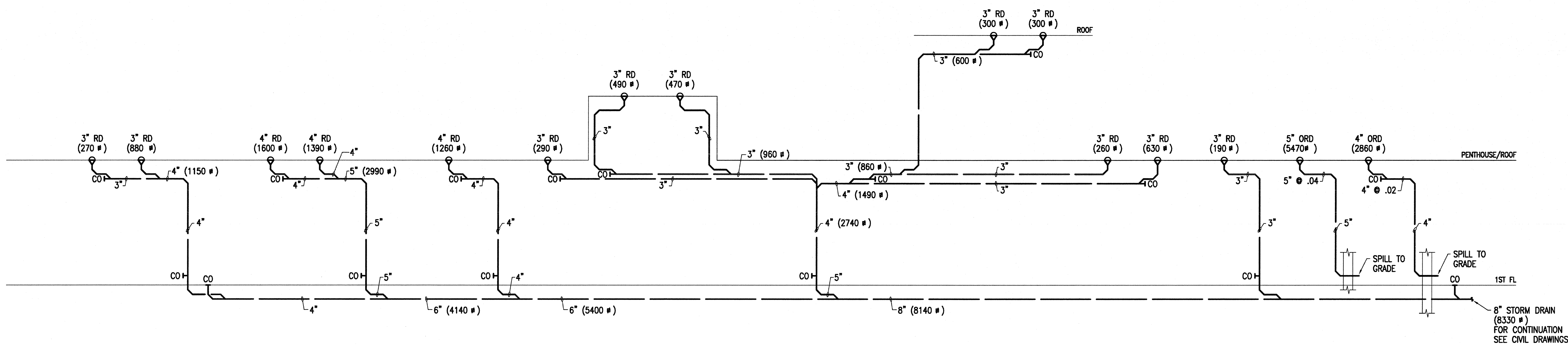
Drawing Number: PL22

Office of Construction and Facilities Management

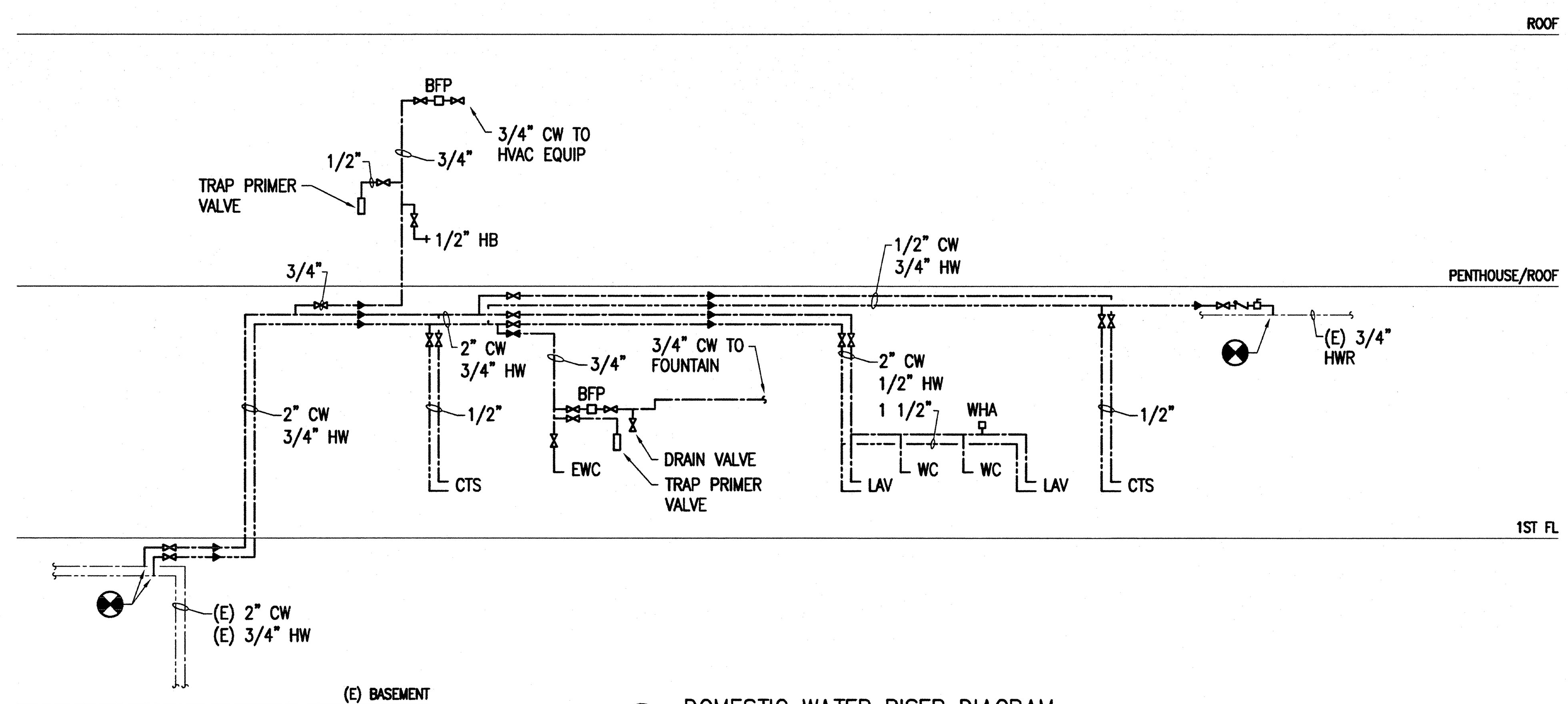
Department of Veterans Affairs



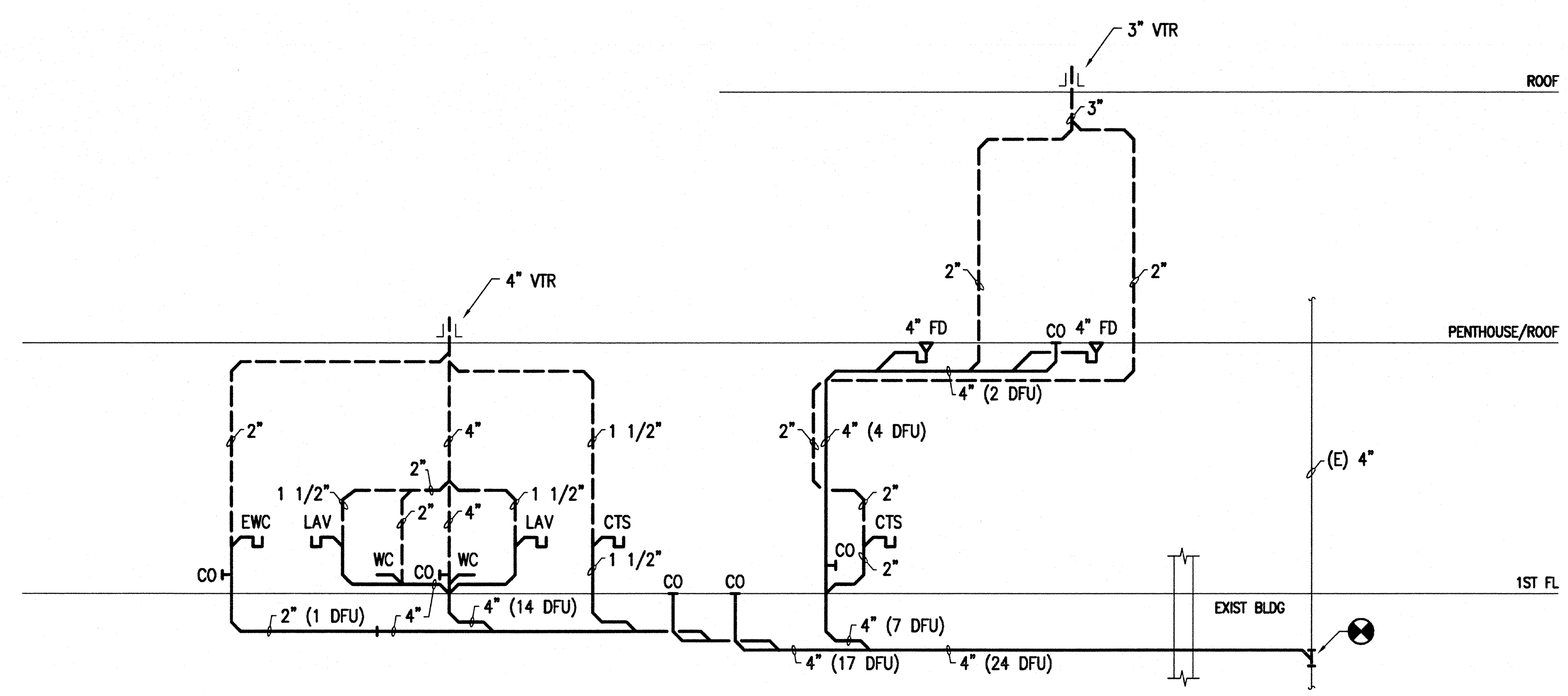
4 PL601 FOUNTAIN PLAN
1/4"=1'-0"



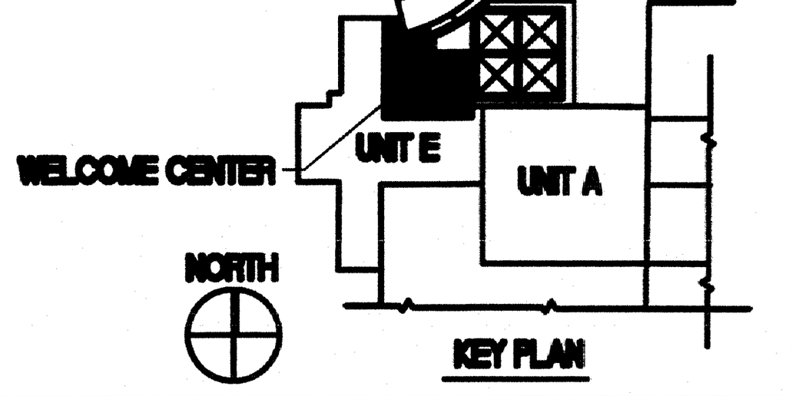
1 PL601 STORM RISER DIAGRAM
NO SCALE



3 PL601 DOMESTIC WATER RISER DIAGRAM
NO SCALE



1 PL601 SANITARY RISER DIAGRAM
NO SCALE



KEY PLAN

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CONSULTANTS:

DISTRICT OF COLUMBIA ERIC D. JOESTEN NO. 901502 REGISTERED PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

EWING COLE
1025 Connecticut Avenue, NW
Suite 900
Washington, DC 20036-5405
Tel: 202-467-1500 Fax: 202-296-8950

Drawing Title: FOUNTAIN AND RISER DIAGRAMS PLUMBING

Approved: Project Director

Project Title: OIF / OEF WELCOME CENTER DEPARTMENT OF VETERANS AFFAIRS VAMC

Location: Veterans Affairs Medical Center, 50 Irving Street NW Washington DC

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Project Number: 688-334 OIF/OEF

Building Number:

Drawing Number: PL601

Office of Construction and Facilities Management

Department of Veterans Affairs

ABBREVIATIONS

@	AT	JUNC.	JUNCTION
A OR AMP	AMPERE	KVA	KILOVOLT-AMPERE
ABV.	ABOVE	KW	KILOWATT
AF	AMP FRAME	KWH	KILOWATT-HOUR
A.F.C.	ABOVE FINISHED CEILING	L.A.	LIGHTNING SURGE ARRESTER
A.F.F.	ABOVE FINISHED FLOOR	LCP	LOCAL CONTROL PANEL
A.F.G.	ABOVE FINISHED GRADE	LIM	LINE ISOLATION MONITOR
A.I.C.	AMPERE INTERRUPTING CAPACITY	L.O.	LUGS ONLY
AL	ALUMINUM	LS	LIMIT SWITCH
ALT.	ALTERNATE	LT.	LIGHT
AM	AMMETER	LTG.	LIGHTING
ANNUN.	ANNUNCIATOR	LV	LOW VOLTAGE
ANT.	ANTENNA	MAX.	MAXIMUM
ARCH.	ARCHITECT	M.C.	MECHANICAL CONTRACTOR
AS	AMMETER SWITCH	MCB	MAIN CIRCUIT BREAKER
AT	AMP TRIP	MCC	MOTOR CONTROL CENTER
ATC	AUTOMATIC TEMPERATURE CONTROL	MCP	MOTOR CCIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH	ME	MODIFY EXISTING
AUX.	AUXILIARY	MFR.	MANUFACTURER
BD	BUS DUCT	MIN.	MINIMUM
BIL	BASIC IMPULSE LEVEL	M.O.	MECHNICALLY OPERATED
BKBD.	BACKBOARD	M.L.O.	MAIN LUGS ONLY
BKR.	BREAKER	MTD.	MOUNTED
C. OR CDT.	CONDUIT	MTS	MANUAL TRANSFER SWITCH
CAB.	CABINET	MV	MEDIUM VOLTAGE
C/B	CIRCUIT BREAKER	N	NEUTRAL
CBL.	CABLE	NAC	NOTIFICATION APPLIANCE CIRCUIT
CC	CASEWORK CONTRACTOR	N.C.	NORMALLY CLOSED
CKT	CIRCUIT	N.I.C.	NOT IN CONTRACT
CLG.	CEILING	N.O.	NORMALLY OPEN
CONN.	CONNECTION	N.T.S.	NOT TO SCALE
CONST.	CONSTRUCTION	O.C.	ON CENTER
CONT.	CONTINUOUS	O.C.B.	OIL CIRCUIT BREAKER
CONTR.	CONTRACTOR	O.C.P.	OVERCURRENT PROTECTION
CP	CONTROL PANEL	O.D.	OUTSIDE DIMENSION
CPT	CONTROL POWER TRANSFORMER	P	POLE
CT	CURRENT TRANSFORMER	PB	PULL BOX
CU.	COPPER	P.C.	PLUMBING CONTRACTOR
DEMO.	DEMOLITION	PF	POWER FACTOR
DC	DIRECT CURRENT	PH OR Ø	PHASE
DIA.	DIAMETER	PL	PILOT LIGHT
DIC.	DICTATION	PNL.	PANEL
DISC.	DISCONNECT	PRI.	PRIMARY
DIST.	DISTRIBUTION	PS	PULL STATION
DWG.	DRAWING	PSI	POUNDS PER SQUARE INCH
DP	DISTRIBUTION PANEL	PT	POTENTIAL TRANSFORMER
E	EMERGENCY	PWR.	POWER
EU	EMERGENCY UPS	RCVR.	RECEIVER
EA.	EACH	RE	REMOVE EXISTING
E.C.	ELECTRICAL CONTRACTOR	REQ.	REQUIRED
E.D.P.	ELECTRONIC DATA PROCESSING	REX	RELOCATE EXISTING
ELEC.	ELECTRICAL	SEC.	SECONDARY
ELEV.	ELEVATOR	SLC	SIGNALING LINE CIRCUIT
EMT	ELECTRICAL METALLIC TUBING	SLD.	SINGLE LINE DIAGRAM
ENCL.	ENCLOSURE	SLV.	SLEEVE
E.O.	ELECTRICALLY OPERATED	SPEC.	SPECIFICATION
E.R.	EXISTING RELOCATED	SS.	SUBSTATION
EQUIP.	EQUIPMENT	S.T.	SHUNT TRIP
E.W.C.	ELECTRIC WATER COOLER	STD.	STANDARD
EX.	EXISTING TO REMAIN	STR.	STARTER
F.	FUSED(D)	SW.	SWITCH
F/A	FIRE ALARM	SWGR.	SWITCHGEAR
F.B.O.	FURNISHED BY OWNER	SYS.	SYSTEM
F.D.	FEEDER DUCT	TEL.	TELEPHONE
FDR.	FEEDER	TEMP.	TEMPERATURE
F.H.C.	FIRE HOSE CABINET	TERM.	TERMINAL
F.I.	FILM ILLUMINATOR	TV	TELEVISION
FL.	FLOOR	TYP.	TYPICAL
FLUOR.	FLUORESCENT	UC	UNDERCOUNTER
F.S.	FLOW SWITCH	UE	UNDERGROUND ELECTRICAL
FUT.	FUTURE	UT	UNDERGROUND TELECOMM.
G	EQUIPMENT GROUND CONDUCTOR	U/F	UNFUSED
GA.	GAUGE	U.L.	UNDERWRITERS' LABORATORY
G.C.	GENERAL CONTRACTOR	U.O.N.	UNLESS OTHERWISE NOTED
G.F.I.	GROUND FAULT INTERRUPTER	U.V.	UNDER VOLTAGE
G.F.S.C.	GROUND FAULT SENSING RELAY	V	VOLT
GND.	GROUND	VM	VOLTMETER
GSC	SYSTEM CIRCUIT GROUND CONDUCTOR	VS	VOLTMETER SWITCH
H.I.D.	HIGH INTENSITY DISCHARGE	W	WATT
H.O.A.	HAND-OFF-AUTOMATIC	WP	WEATHERPROOF
H.P.	HORSEPOWER	XDR	TRANSDUCER
HT.	HEIGHT	XFMR	TRANSFORMER
H.V.	HIGH VOLTAGE	XFR	TRANSFER
HVAC	HEATING, VENTILATING, AIR CONDITIONING	XMTR	TRANSMITTER
I.D.	INSIDE DIMENSION	XP	EXPLOSION-PROOF
ILL.	ILLUMINATION	XPDR	TRANSPONDER
IMC.	INTERMEDIATE METAL CONDUIT		
INV.	INVERT		
JB	JUNCTION BOX		

GENERAL NOTES

1. FOR DESCRIPTION OF SYMBOLS, SEE "ELECTRICAL SYMBOL LIST" AND SPECIFICATIONS.
2. DIMENSIONS MARKED ± ARE TO BE VERIFIED IN THE FIELD. THOSE MARKED N.T.S. ARE SHOWN NOT TO SCALE. ALL OTHERS SHOULD BE CHECKED WITH OTHER TRADE DRAWINGS AND VERIFIED BY THE CONTRACTOR.
3. MOUNTING HEIGHTS SHALL BE AS INDICATED IN "MOUNTING HEIGHTS" SCHEDULE.
4. FOR EXACT LOCATION OF REMOVABLE PARTITIONS, REFER TO ARCHITECTURAL DRAWINGS.
5. CONTRACTOR SHALL VERIFY ALL DOOR SWINGS BEFORE INSTALLING SWITCH BOXES.
6. FOR EXACT LOCATIONS OF LUMINAIRES, SEE REFLECTED CEILING PLAN DRAWINGS.
7. FOR MOUNTING HEIGHT OF UNDERCOUNTER LUMINAIRES AND OTHER TASK LIGHTING, REFER TO ARCHITECTURAL DRAWINGS.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF SUSPENDED AND/OR SURFACE MOUNTED LUMINAIRES IN MECHANICAL AND STORAGE AREAS WITH OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION.
9. REFER TO HEATING, VENTILATING, AIR-CONDITIONING AND PLUMBING SECTIONS OF THE SPECIFICATIONS AND MECHANICAL EQUIPMENT COORDINATION SCHEDULES FOR REQUIRED CONTROL WIRING OF MECHANICAL EQUIPMENT.
10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EXPANSION FITTINGS IN ALL RACEWAYS CROSSING CONSTRUCTION OR EXPANSION JOINTS. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF JOINTS.
11. UNLESS INDICATED OTHERWISE , ALL PANELS, CABINETS AND THE LIKE IN ELECTRIC CLOSETS OR EQUIPMENT ROOMS ARE TO BE MOUNTED ON STRUCTURAL CHANNEL FRAMING WHICH SHALL BE SECURED TO STRUCTURAL FLOOR AND CEILING SLABS.

MOUNTING HEIGHTS

STANDARD MOUNTING HEIGHTS

9" BELOW FINISHED CEILING OR 10'-0" AFF	WALL-MOUNTED CLOCKS AND PROGRAM BELLS (LOWEST OF TWO HEIGHTS OR AS SHOWN ON ARCHITECTURAL DETAILS)
10'-0"	BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED LIGHT HEADS (OR 1'-0" BELOW FINISHED CEILING TO TOP OF UNIT)
8'-6"	PENDANT HUNG INDUSTRIAL AND STRIP LUMINAIRES
7'-6"+	TELEVISION OUTLET AND SERVICE RECEPTACLE FOR SHELF MOUNTED TV IN BEDROOMS
7'-6"	TOP OF BACK MOUNTED WALL EXIT LUMINAIRES (NOT MOUNTED ABOVE DOORS) AND FA AUDIBLE (ONLY)
CENTERED ABOVE DOOR OR WINDOW OPENING	WARNING AND SIGNALING LUMINAIRES / SIGNS
6'-6"	TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANELBOARDS AND TELEPHONE CABINETS
6'-0"	TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, CONTACTORS, AND FA PANELS
4'-0"	WALL-MOUNTED WIREWAY
3'-10"	WALL-MOUNTED TELEPHONES AND PAY STATIONS (3'-6" AT ADA LOCATIONS)
3'-10"	WALL-MOUNTED ELECTRICAL DEVICES, LIGHTING SWITCHES, AND MANUAL MOTOR STARTERS
2'-0"	ELECTRICAL RECEPTACLES WITHIN MECHANICAL SPACES, ELECTRICAL AND ELEVATOR ROOMS
18"	ELECTRICAL RECEPTACLES, TELEVISION OUTLETS, AND VOICE/DATA OUTLETS [PATIENT ROOM NIGHTLIGHTS]
6"	ELECTRICAL AND DATA CONNECTIONS TO SYSTEMS FURNITURE
0'-0"	FINISHED FLOOR

NOTES:

1. REFER TO SHEET ARCHITECTURAL 'G' SERIES DRAWING TITLED "MOUNTING HEIGHTS AND CLEARANCES" FOR ADDITIONAL MOUNTING HEIGHT REQUIREMENTS.
2. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
3. MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
4. A + SYMBOL BESIDE A DEVICE INDICATES DEVICE MOUNTED ABOVE COUNTER OR CASEWORK. REFER TO ARCHITECTURAL AND CASEWORK DETAILS FOR ACTUAL ELEVATION.

WIRING DEVICES AND BOXES

XX — DUPLEX RECEPTACLE
(FUNCTION)
TR - TAMPER RESISTANT
EP - EXPLOSION PROOF
NE - NON-EXPLOSION PROOF ENCLOSED
IG - ISOLATED GROUND

QUADRUPLEX RECEPTACLE
GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
DEVICE DIRECT CONNECTED TO EQUIPMENT
B -B — OUTLET BOX WITH BLANK COVER
J -J — CONCEALED JUNCTION BOX
J -J — SURFACE MOUNTED JUNCTION BOX
PB — PULL BOX WITH SYSTEM AS INDICATED
MOTOR BY DIV. 23
T — LOW VOLTAGE TRANSFORMER

LUMINAIRES

a 5 — FLUORESCENT LUMINAIRE - NUMBER INDICATES CIRCUIT; LETTER INDICATES SWITCH LEG
a b — INDICATES LUMINAIRE WITH SEPARATELY SWITCHED BALLASTS
DOWNLIGHT - SURFACE OR RECESSED
INDUSTRIAL LUMINAIRE - STRIPS AND CHANNELS
WALL MOUNTED OR UNDERCOUNTER FLUORESCENT LUMINAIRE
PERIMETER SYSTEMS OR COVES
EXIT LUMINAIRE - CEILING OR WALL MOUNTED
E E — INDICATES LUMINAIRE ON EMERGENCY CIRCUIT OR EQUIPPED WITH BATTERY BALLASTS

CONTROL DEVICES

S_X — TOGGLE SWITCH (SINGLE POLE UNLESS OTHERWISE NOTED)
(FUNCTION)
a, b, c - INDICATES SWITCHLEG
2 - DOUBLE POLE SINGLE THROW
3 - THREE WAY

OC - OCCUPANCY SENSOR

T-TIMER SWITCH

M - MANUAL MOTOR STARTER

CO - SINGLE POLE, CENTER OFF MOMENTARY CONTACT SWITCH

P — PHOTOCELL
CEILING MOUNTED OCCUPANCY SENSOR
D_S — DOOR SWITCH

WIRING

BRANCH CIRCUIT WIRING IN OR BELOW FLOOR CONSTRUCTION
BRANCH CIRCUIT WIRING CONCEALED IN WALL OR ABOVE CEILING CONSTRUCTION
BRANCH CIRCUIT WIRING RUN EXPOSED
E — EMERGENCY SYSTEM BRANCH CIRCUIT WIRING
BRANCH CIRCUIT WIRING TO PANEL
5 — CIRCUIT NUMBER AT PANELBOARD

CIRCUIT PROTECTION/DISCONNECT

CIRCUIT BREAKER
UNFUSED SAFETY DISCONNECT SWITCH

MOTOR CONTROL

COMBINATION MOTOR STARTER AND DISCONNECT SWITCH
CP — CONTROL PANEL
VFD — VARIABLE FREQUENCY DRIVE

PANELBOARDS

ELECTRICAL PANELBOARD
ELECTRICAL DISTRIBUTION PANELBOARD (ACTUAL SIZE)

COMMUNICATIONS

W — TELEPHONE OUTLET
(TELEPHONE FUNCTION)
W - WALL MOUNTED PHONE
D - DESK MOUNTED PHONE
ADA - ADA PAY STATION
TT - TEXT TELEPHONE
PS - PAY STATION
H - HOUSE PHONE

VOICE/DATA OUTLET
DATA OUTLET
TTC — TELEPHONE TERMINAL CABINET
WIRELESS ACCESS POINT (WAP)

SECURITY SYSTEM

EH — SECURITY ALARM DEVICE AND/OR CONTACT
(ALARM CONTROL FUNCTION)
EH - ELECTRIC DOOR HINGE
ES - ELECTRIC DOOR STRIKE
DP - DOOR POSITION
ML - MAGNETIC LOCK
KP - KEY PAD
CR - CARD READER
HB - HOLD UP BUTTON
KS - LOCAL KEY SWITCH FOR ALARM BYPASS
MR - MANUAL RELEASE
C - CLOSED CIRCUIT TV CAMERA
CM - CLOSED CIRCUIT TV MONITOR
MD - MOTION DETECTOR
SD - SOUND DETECTOR
DA - DURESS ALARM
AS - DURESS ALARM SWITCH
GS - GUARD TOUR STATION

DGP — DATA GATHERING PANEL
ECM — ELECTRONIC CONTROL MODULE
TYPE No. / DETAIL No. — SECURITY DOOR HARDWARE IDENTIFICATION

TELEVISION

TV — TELEVISION OUTLET

SOUND SYSTEM

S V -S — SPEAKER
(SPEAKER FUNCTION)
V - VOICE PAGING ONLY
VM - VOICE PAGING AND MUSIC
M - MUSIC ONLY

EQUIPMENT GROUNDING AND LIGHTNING PROTECTION

—GB— EQUIPMENT GROUND BUS BAR
GROUND ROD
GROUND ROD AND ACCESS WELL
—XL— EXISTING LIGHTNING PROTECTION CONDUCTOR
—L— LIGHTNING PROTECTION CONDUCTOR
—LG— LIGHTNING PROTECTION CONDUCTOR
LIGHTNING PROTECTION AIR TERMINAL
DL — LIGHTNING PROTECTION CONDUCTOR, CHANGE IN LEVEL
LIGHTNING PROTECTION CONDUCTOR THROUGH ROOF TO STEEL
GROUND ROD AND LIGHTNING PROTECTION CONDUCTOR THROUGH BUILDING WALL TO STEEL

SINGLE LINE DIAGRAM

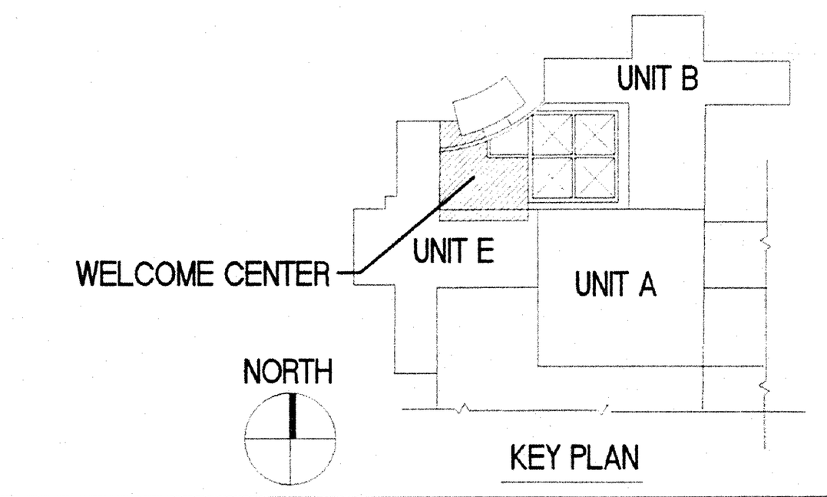
CONTROL WIRING
DRAWOUT DEVICE
CIRCUIT BREAKER OR MOTOR CIRCUIT PROTECTOR
DISCONNECT SWITCH
FUSE
POWER OR DISTRIBUTION TRANSFORMER
DELTA CONNECTION
WYE CONNECTION
5 — MOTOR BY DIV. 23 (NUMBER DENOTES HP)
PANEL — SINGLE SECTION PANELBOARD (ADDITIONAL SECTIONS SHOWN, IF REQUIRED)
CONTROL PANEL — CONTROL PANEL WITH INTEGRAL DISCONNECT BY DIV. 23
CONTROL PANEL — CONTROL PANEL
3W20 — WIRE SIZE TAG
VFD — VARIABLE FREQUENCY DRIVE
ENCLOSED COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT SWITCH

DRAWING INDEX

ES001	ELECTRICAL COVER SHEET
ESD101	ELECTRICAL DEMOLITION
ESL101	PARTIAL GROUND FLOOR PLAN - LIGHTING - NEW WORK
ESL102	PARTIAL ROOF AND PENTHOUSE PLAN - LIGHTING - NEW WORK
ESP101	PARTIAL GROUND FLOOR PLAN - POWER - NEW WORK
ESP102	PARTIAL ROOF AND PENTHOUSE PLAN - POWER - NEW WORK
ESP103	LIGHTNING PROTECTION AND GROUNDING - NEW WORK
EST101	PARTIAL GROUND FLOOR PLAN - TELECOMM AND SIGNAL - NEW WORK
ESY101	PARTIAL GROUND FLOOR PLAN - NURSE CALL - NEW WORK
ES501	ELECTRICAL DETAILS
ES601	ELECTRICAL SCHEDULES

GENERAL NOTES:

1. THE DRAWINGS LISTED IN THE DRAWING INDEX ON THIS SHEET ARE THOSE WHICH ARE BEING ISSUED FOR THIS PROJECT PHASE ONLY.
2. DRAWING NUMBERS FOR THIS PROJECT ARE BROKEN DOWN INTO GROUPS OR CATEGORIES SO FUTURE DRAWINGS MAY BE INSERTED OR SOME DRAWINGS MAYBE REMOVED IN AN ORGANIZED SEQUENCE WITHOUT DUPLICATION OF DRAWING NUMBERS.
3. NOMENCLATURE SHOWN ON THIS DRAWING ARE TYPICAL STANDARDS FOR THIS PROJECT. SWITCHBOARDS, SUBSTATIONS AND OTHER MAJOR DISTRIBUTION EQUIPMENT INSTALLED PRIOR TO THIS PROJECT THAT WILL REMAIN IN USE SHALL MAINTAIN THEIR EXISTING DESIGNATIONS.
4. THIS IS A STANDARD LIST, ALL DEVICE SYMBOLS AND ABBREVIATIONS MAY NOT NECESSARILY APPEAR ON THE DRAWINGS. ONLY THOSE SYMBOLS INDICATED ON THE DRAWINGS ARE USED FOR THIS PROJECT. ALL OTHERS ARE TO BE CONSIDERED NOT USED AND SHOULD BE DISREGARDED.



KEY PLAN

Revisions	Date
ISSUE 1 - ISSUE FOR CONSTRUCTION	04.30.2013
95 % SUBMISSION	02.17.2012
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CONSULTANTS:

ARCHITECT/ENGINEERS:

EWING COLE
1025 Connecticut Avenue, NW
Suite 900
Washington, DC 20036-5405
Tel: 202-467-1500 Fax: 202-296-8950

DISTRICT OF COLUMBIA ERIC D. JOESTEN NO. 901502 REGISTERED PROFESSIONAL ENGINEER

DISTRICT OF COLUMBIA MARY ALCARAZ NO. 901510 REGISTERED PROFESSIONAL ENGINEER

Drawing Title: ELECTRICAL COVER SHEET

Approved: Project Director

Project Title: OIF / OEF WELCOME CENTER DEPARTMENT OF VETERANS AFFAIRS VAMC

Location: Veterans Affairs Medical Center, 50 Irving Street NW Washington DC

Date: 4-30-2013 | Checked: - | Drawn: AK

Project Number: 688-334 OIF/OEF

Building Number:

Drawing Number: ES001

Office of Construction and Facilities Management

Department of Veterans Affairs

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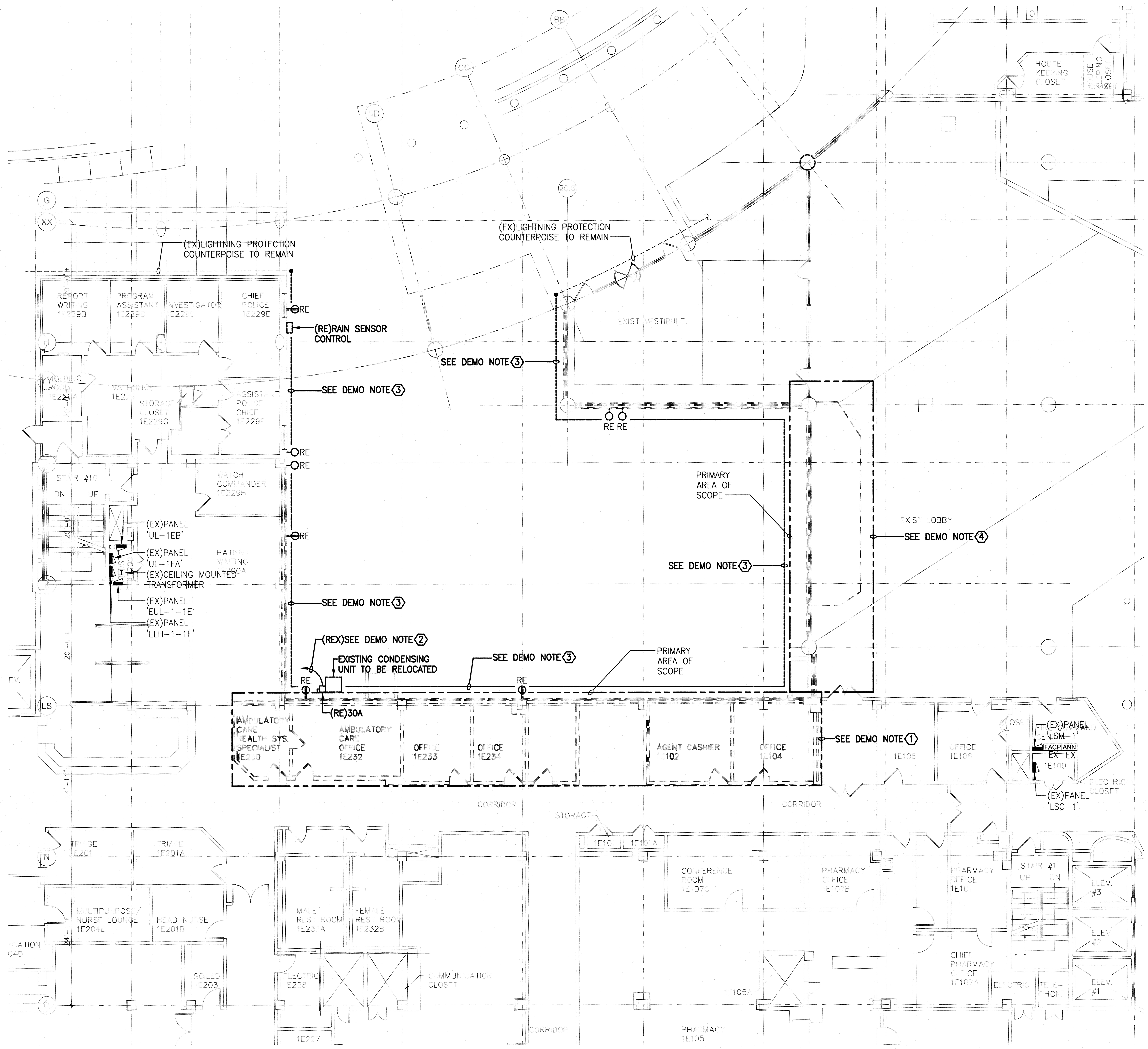


1 PARTIAL GROUND FLOOR PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES:

1. CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS.
2. COORDINATE EXTENT OF DEMOLITION WITH ALL DISCIPLINES.
3. UNLESS OTHERWISE NOTED AS EXISTING TO REMAIN (EX) OR RELOCATE EXISTING (REX), WITHIN THE PRIMARY AREA OF SCOPE REMOVE ELECTRICAL POWER, SIGNAL AND LIGHTING DEVICES WITH CORRESPONDING CIRCUITING AND CONDUIT NOT BEING RE-USED BACK TO SOURCE. NOT ALL DEVICES AND EQUIPMENT ARE SHOWN.
4. DISCONNECT AND REMOVE IN THEIR ENTIRETY ALL ELECTRIC SERVICES TO ALL EQUIPMENT SCHEDULED TO BE DEMOLISHED, EQUIPMENT LOCATED IN WALLS AND CEILINGS SCHEDULED TO BE DEMOLISHED, AND ALL EQUIPMENT WHICH IS SCHEDULED TO BE REMOVED AND/OR RELOCATED BY THE OWNER.
DEMOLITION INCLUDES BUT IS NOT LIMITED TO:
   A. REMOVE WIRING DEVICES AND MULTI-OUTLET RACEWAYS IN THEIR ENTIRETY BACK TO THEIR SOURCE.
   B. REMOVE LIGHTING FIXTURES, CONTROL / SWITCHES AND BATTERY PACKS IN THEIR ENTIRETY BACK TO THEIR SOURCE.
   C. REMOVE COMMUNICATIONS DEVICES, INCLUDING BUT NOT LIMITED TO, VOICE, DATA, NURSE CALL AND PAGING IN THEIR ENTIRETY BACK TO THEIR SOURCE.
   D. REMOVE FEEDERS, CONDUIT, RACEWAYS, CONTROLS AND ASSOCIATED EQUIPMENT NO LONGER REQUIRED TO ELECTRICAL SYSTEMS, MECHANICAL AND PLUMBING EQUIPMENT BEING DEMOLISHED.
5. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES OUTSIDE THE PRIMARY AREA OF SCOPE SHALL REMAIN AS CONNECTED. WHERE BRANCH CIRCUITS AND CONNECTIONS SERVING DEVICES SCHEDULED FOR DEMOLITION ARE OUTSIDE THE PRIMARY AREA OF SCOPE THEY SHALL ALSO BE REMOVED UNLESS THEY AFFECT SERVICE TO DEVICES OUTSIDE THE PRIMARY AREA OF SCOPE.
6. UNLESS OTHERWISE NOTED, WHERE ELECTRICAL POWER, SIGNAL AND LIGHTING DEVICES ARE EXISTING TO REMAIN AND AFFECTED BY ALTERATIONS, ENSURE THAT THESE SYSTEMS ARE RETURNED TO PROPER WORKING ORDER AND ADHERE TO APPLICABLE CODES AND ORDINANCES. ALL DEVICES OUTSIDE OF THE PRIMARY AREA OF SCOPE SHALL REMAIN ACTIVE THROUGHOUT THESE RENOVATIONS.

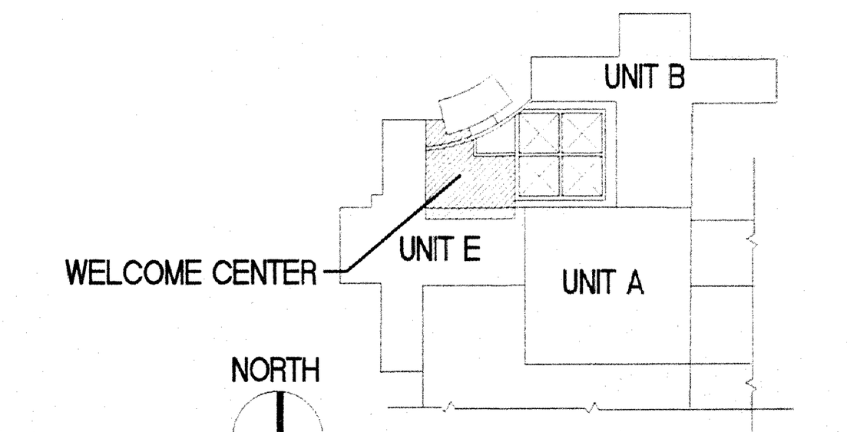
DRAWING DEMOLITION NOTES:

⟨1⟩ CONTRACTOR SHALL DEMOLISH ALL WIRING DEVICES, COMMUNICATION DEVICES, LIGHT FIXTURES AND ALL OTHER ELECTRICAL DEVICES IN THEIR ENTIRETY IN THIS AREA.

⟨2⟩ DISCONNECT EXISTING EQUIPMENT, FEEDER TO REMAIN. EXTEND FEEDER TO NEW UNIT LOCATION. REFER TO NEW WORK DRAWINGS.

⟨3⟩ SECTION OF EXISTING LIGHTNING PROTECTION COUNTERPOISE TO BE REMOVED. CONTRACTOR SHALL CONNECT NEW COUNTERPOISE AND COMPLETE ALL SITE-RELATED GROUNDING CONNECTIONS PRIOR TO REMOVAL. EXTEND EXISTING DOWN CONDUCTORS TO NEW COUNTERPOISE AS REQUIRED.

⟨4⟩ CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING FLOOR MOUNTED DEVICES IN THE AREA; BRANCH CIRCUITS TO REMAIN. CONTRACTOR TO RELOCATE DEVICES PER DIRECTION OF HOSPITAL AS PART OF NEW ALTERATIONS; EXTEND EXISTING BRANCH CIRCUITS TO NEW DEVICE LOCATIONS.



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CONSULTANTS:

ARCHITECT/ENGINEERS:

EWING COLE
1025 Connecticut Avenue, NW
Suite 900
Washington, DC 20036-5405
Tel: 202-467-1500 Fax: 202-296-8950

Drawing Title: ELECTRICAL DEMOLITION

Approved: Project Director

Project Title: OIF / OEF WELCOME CENTER DEPARTMENT OF VETERANS AFFAIRS VAMC

Location: Veterans Affairs Medical Center, 50 Irving Street NW Washington DC

Date: 4-30-2013 | Checked: - | Drawn: AK

Project Number: 688-334 OIF/OEF

Building Number:

Drawing Number: ESD101

Office of Construction and Facilities Management
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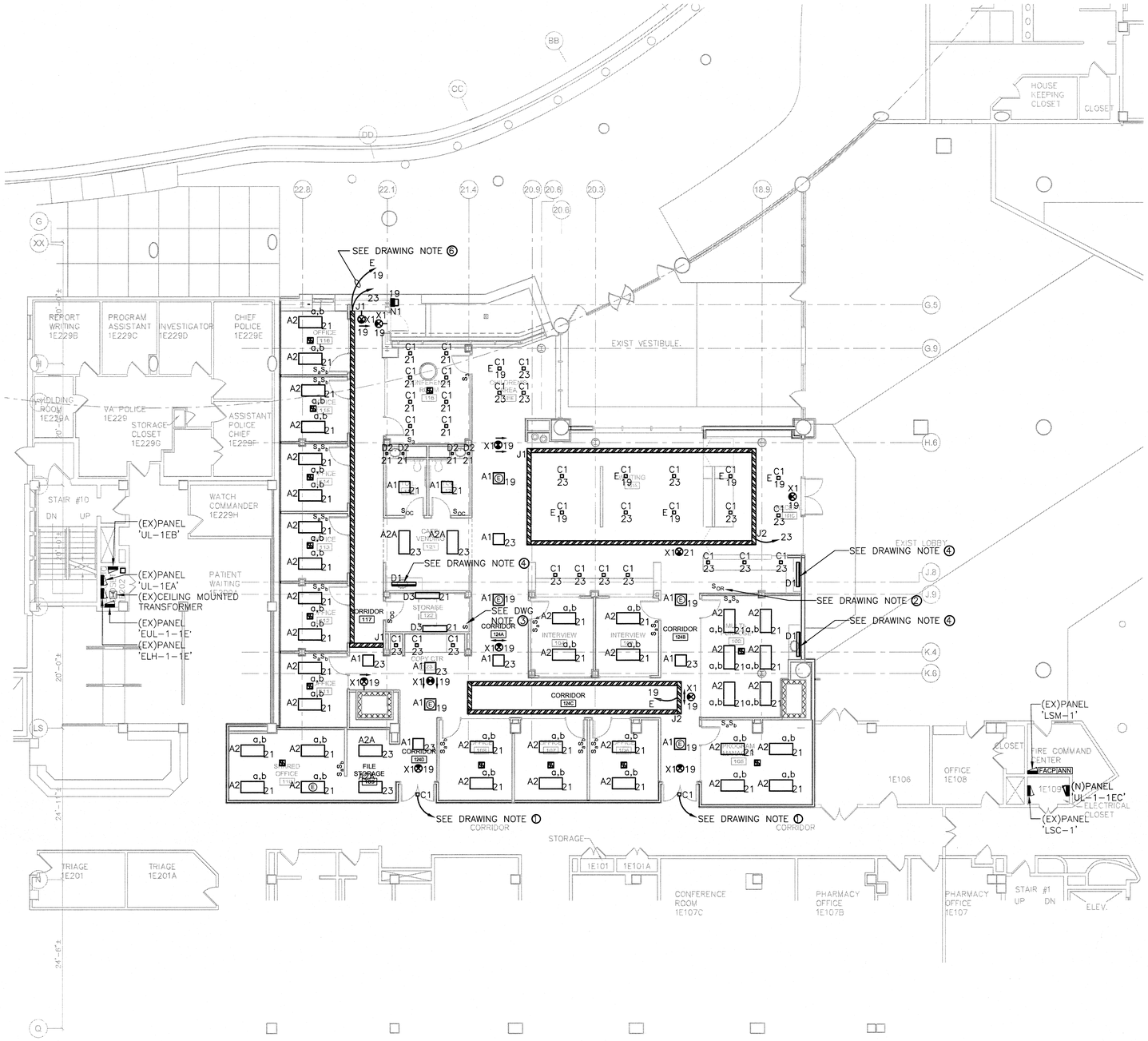


1 PARTIAL GROUND FLOOR PLAN - LIGHTING - NEW WORK
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND MOUNTING HEIGHTS, REFER TO DRAWING ES001
2. FOR LUMINAIRE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING ES601.
3. FOR ACTUAL LOCATION OF CEILING MOUNTED LUMINAIRES AND ELECTRICAL DEVICES, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
4. UNLESS OTHERWISE NOTED, ALL FIXTURES SHALL BE CONNECTED TO EXISTING PANEL ELH-1-1E.
5. UNLESS OTHERWISE NOTED, ALL EXIT SIGNS AND LUMINAIRES SHOWN AS EMERGENCY ('E') SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT SHOWN.
6. BRANCH CIRCUITS FEEDING CORRIDORS, PASSAGEWAYS AND PERSONNEL OR VEHICULAR TRAFFIC AISLES SHALL NOT FEED AREAS THAT ARE LOCALLY SWITCHED (SUCH AS OFFICES).
7. REFER TO TYPICAL COVE DETAIL IN ARCHITECTURAL DRAWINGS FOR MOUNTING OF 'J1' AND 'J2' FIXTURE. THE 'J1' AND 'J2' FIXTURES SHALL BE A CONTINUOUS ROW TO FILL THE ENTIRE LENGTH OF THE COVE. WHERE REQUIRED, PROVIDE 2' OR 3' SECTIONS FOR A UNIFORM LIGHTING LEVEL ALONG THE ENTIRE LENGTH. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET ES601.

DRAWING NOTES:

① CONNECT TO EXISTING 277V BRANCH CIRCUIT CURRENTLY SERVING CORRIDOR LIGHTING.

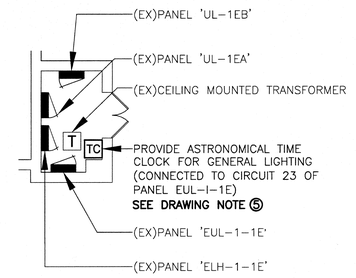
② PROVIDE MOMENTARY CONTACT OVERRIDE SWITCH FOR MANUAL CONTROL OF GENERAL AREA AND CORRIDOR LIGHTING, WHICH ARE CONTROLLED VIA TIMECLOCK.

③ PROVIDE SWITCH NEAR LADDER FOR THE 'N1' TYPE FIXTURE LOCATED AT PENTHOUSE ENTRANCE. REFER TO SHEET ESL102.

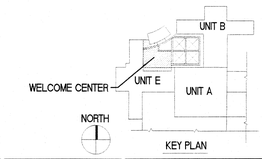
④ CIRCUIT 'D1' FIXTURE TO NEAREST 120V RECEPTACLE BRANCH CIRCUIT SERVING THE AREA.

⑤ PROVIDE 2-CIRCUIT ASTRONOMICAL TIME CLOCK FOR AUTOMATIC CONTROL OF GENERAL LIGHTING. TIME CLOCK SHALL HAVE "OVERRIDE ON" FEATURE VIA LOW VOLTAGE SWITCH LOCATED AT RECEPTION DESK TO TURN ON LIGHTS AFTER HOURS. TIME CLOCK SHALL BE BY INTERMATIC OR APPROVED EQUAL.

⑥ THE J1 FIXTURES IN THIS RUN SHALL BE CIRCUITED IN A FASHION SO THAT EVERY FOURTH FIXTURE IS CONNECTED TO THE UNSWITCHED LEG OF CIRCUIT 19. THE OTHERS SHALL BE CONNECTED TO CIRCUIT 23.



2 ELECTRIC CLOSET 1E202
SCALE: 1/4" = 1'-0"



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EWING COLE
1025 Connecticut Avenue, NW
Suite 900
Washington, DC 20036-5405
Tel: 202-467-1500 Fax: 202-296-8950

DISTRICT OF COLUMBIA — NO. 1510 — REGISTERED PROFESSIONAL ENGINEER

Drawing Title: PARTIAL GROUND FLOOR PLAN LIGHTING - NEW WORK

Approved Project Director:

Project Title: OIF / OEF WELCOME CENTER DEPARTMENT OF VETERANS AFFAIRS VAMC

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